

possible duration of sunshine. The differences between instrumental and personal records do not vary at all regularly with latitude in the case of the photographic stations, but do have an appreciable increase with latitude in the case of most of the thermometric stations; we may infer that the change of latitude coupled with the change of local peculiarities of the stations affects the thermometric intensity of solar rays more than it does the actinic intensity.

TABLE C.—*Instrumental records minus personal estimates at photographic stations.*

Stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual mean.
Galveston	+ 1	- 1	+ 4	+ 9	+ 7	+ 6	+ 15	+ 8	+ 8	+ 5	- 7	+ 3	4.8
Savannah	- 12	+ 14	+ 11	+ 13	+ 14	+ 29	+ 15	+ 6	- 1	+ 5	+ 2	- 3	9.8
Phoenix	+ 5	+ 17	+ 23	+ 11	+ 9	+ 11	+ 23	+ 25	+ 10	+ 8	+ 12	+ 6	13.2
San Diego	+ 6	+ 7	+ 16	+ 6	+ 9	+ 2	- 4	- 11	- 4	0	+ 5	+ 12	3.7
Los Angeles	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Santa Fe	+ 14	+ 11	+ 12	+ 16	+ 17	+ 15	+ 18	+ 19	+ 8	+ 18	+ 16	+ 11	14.6
Dodge City	+ 8	+ 7	+ 12	+ 8	+ 5	+ 16	+ 8	+ 8	+ 8	+ 8	+ 3	+ 4	7.8
Kansas City	- 3	+ 1	+ 6	+ 5	+ 12	+ 10	+ 9	+ 4	+ 5	+ 5	+ 5	- 3	4.6
Washington	0	- 7	0	- 4	+ 5	+ 7	+ 12	+ 5	+ 1	+ 3	+ 3	+ 8	2.8
Denver	+ 23	+ 17	+ 23	+ 20	+ 8	+ 17	+ 10	+ 7	+ 8	+ 11	+ 27	+ 19	15.8
Cheyenne	.....	.....	.....	.....	.....	.....	.....	.....	+ 16	+ 23	+ 21	+ 13	3.3
Eureka	- 1	+ 7	+ 1	+ 4	+ 6	+ 1	- 2	- 9	+ 4	+ 1	+ 2	- 7	0.4
Omaha	.....	.....	.....	.....	.....	.....	.....	.....	+ 10	+ 9	+ 9	- 4	.....
Salt Lake City	+ 15	+ 20	+ 22	+ 28	+ 27	+ 34	+ 31	+ 23	+ 29	+ 12	+ 19	+ 24	23.7
Cleveland	- 3	0	+ 10	+ 14	+ 9	+ 13	+ 13	+ 11	*	.....	.....	.....	.....
Norfolk	.....	+ 1	+ 8	+ 9	+ 10	+ 14	+ 10	+ 15	+ 6	+ 10	+ 1	+ 3	.....
Eastport	+ 11	+ 4	+ 4	+ 10	+ 17	+ 15	+ 11	+ 13	+ 9	+ 7	+ 4	+ 11	10.5
Portland, Oreg.†	+ 9	- 8	0	- 7	- 9	+ 1	+ 5	+ 10	- 2	- 1	+ 12	- 11	- 1.6
Bismarck	- 5	- 4	+ 6	+ 4	+ 3	- 7	+ 4	+ 10	+ 1	- 1	+ 1	+ 2	2.2
Helena	- 3	0	+ 1	+ 2	+ 5	+ 3	+ 6	+ 7	+ 6	+ 8	+ 1	+ 4	3.3

*Photographic record ceases; thermometric record begins in November. †Records by both methods.

TABLE D.—*Instrumental records minus personal estimates at thermometric stations.*

Stations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual mean.
Tampa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
New Orleans	+ 1	+ 1	+ 4	+ 2	+ 3	0	+ 1	+ 1	0	+ 2	1	+ 1	1.4
Vicksburg	+ 2	+ 4	+ 6	0	+ 5	+ 7	+ 4	+ 6	+ 2	+ 3	+ 1	+ 13	1.5
Atlanta	+ 4	+ 6	+ 23	+ 20	+ 33	+ 18	- 13	- 13	- 3	- 3	- 3	- 5	6.9
Wilmington	+ 1	+ 7	+ 11	+ 14	+ 16	+ 10	+ 16	+ 12	+ 11	+ 8	0	0	9.2
Chattanooga	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Little Rock	+ 5	+ 15	+ 15	+ 36	+ 18	+ 29	+ 29	+ 21	+ 12	+ 20	+ 1	+ 15	19.0
Raleigh	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fresno	+ 7	+ 5	+ 14	+ 26	+ 22	+ 38	+ 24	+ 12	+ 10	+ 10	+ 12	+ 15	16.3
Louisville	+ 2	+ 1	+ 5	+ 1	+ 1	+ 7	+ 9	+ 10	+ 5	+ 3	+ 3	+ 3	14.6
Baltimore	+ 3	+ 5	+ 3	+ 1	+ 2	+ 8	+ 11	+ 4	+ 4	+ 10	+ 8	+ 3	1.8
Cincinnati	+ 6	+ 8	+ 8	+ 23	+ 24	+ 24	+ 27	+ 19	+ 19	+ 19	+ 19	+ 19	13.2
St. Louis	+ 7	+ 11	+ 10	+ 19	+ 19	+ 22	+ 16	+ 14	+ 8	+ 8	+ 10	+ 15	13.6
Columbus	+ 5	+ 9	+ 12	+ 17	+ 14	+ 10	+ 11	+ 10	+ 7	+ 12	+ 3	+ 7	8.6
Indianapolis	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Philadelphia	+ 12	+ 13	+ 15	+ 24	+ 28	+ 30	+ 36	+ 27	+ 17	+ 8	+ 12	+ 17	19.9
New York	+ 3	+ 10	+ 8	+ 8	+ 3	+ 1	- 1	- 2	+ 1	- 1	+ 12	+ 14	14.7
Binghamton	+ 5	+ 8	+ 11	+ 9	+ 12	+ 21	+ 13	+ 11	+ 5	+ 5	+ 3	+ 3	0
Boston	+ 4	+ 6	+ 11	+ 8	+ 12	+ 5	+ 5	+ 7	+ 7	+ 7	+ 6	+ 14	0
Chicago	+ 5	+ 8	+ 11	+ 9	+ 12	+ 21	+ 13	+ 11	+ 5	+ 5	+ 3	+ 3	9.4
Cleveland*	+ 11	+ 18	+ 15	+ 26	+ 28	+ 22	+ 3	+ 7	+ 3	+ 8	+ 3	+ 3	12.2
Des Moines	+ 7	+ 7	+ 7	+ 10	+ 16	+ 9	+ 5	+ 15	+ 10	+ 3	+ 8	+ 7	8.7
Detroit	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dubuque	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Albany	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Buffalo	+ 8	+ 16	+ 17	+ 14	+ 10	+ 25	+ 33	+ 14	+ 9	+ 2	+ 1	+ 1	1
Rochester	+ 23	+ 20	+ 9	+ 13	+ 18	+ 7	+ 6	+ 5	+ 7	- 3	+ 1	+ 2	8.8
Portland, Me.	+ 17	+ 10	+ 12	+ 19	+ 13	+ 23	+ 23	+ 19	+ 15	+ 8	+ 11	+ 14	15.2
Seattle	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.6
Independence	.....	+ 13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

*Photographic record ceases; thermometric record begins in November. †No personal record. ‡Records by both methods.

*Changed to "T" in November. †No personal record. ‡Records by both methods.

REDUCTION OF PRESSURES AND TEMPERATURES.

The following table (E) gives the data necessary for computing the mean annual temperatures and pressures reduced to sea level in accordance with the principles explained more fully by Mr. Park Morrill in the SUMMARY for 1895 (Vol. XXIII, page 492). The temperatures are first reduced to sea level by applying the general reduction of 2° F. per 1,000 feet of altitude, plus a station correction determined from a discussion of normal data. These results are charted and a system of smooth isotherms is drawn, such that the individual stations agree usually with the reduced temperatures within a fraction of a degree. The column temperatures used for computing the reduction of pressure to sea level are obtained by subtracting one-half of the above general reduction from the temperatures read off from the system of sea-level isotherms. With these reduction temperatures (in column 7) and the observed station pressures given in column 4 and the mean dew-point in column 6, the reduced barometer is computed by a method based on the formula recommended by the International Meteorological Committee. The pressures given in the 4th column of Table E differ from those in the 2d column of Table I, by reason of the application of the correction for the influence of local gravity, and are, therefore, barometric pressures as distinguished from barometric readings. Similarly the reduced pressures in the 8th column of Table E represent annual sea-level pressures, computed by making due allowance for the influence of the known force of gravity in giving weight to air whose density depends on the temperature and the moisture that is assumed to exist between the station and sea level.

We attain to a more natural system of isobars by reducing pressures upward, since in this case we have to deal with real instead of hypothetical air, whose temperature and moisture can be determined by actual observation instead of arbitrary assumptions, and whose movements are of the greatest importance in the study and prediction of the weather. In the last column of Table E are given the pressures reduced up-

ward to 10,000 feet by the same process that was used for reducing to sea level, and by the help of the small table, F, which is quoted from the SUMMARY for 1895, page 494, but is changed so that the temperature argument is now the column temperature instead of the sea-level temperature.

TABLE E.—*Reduction data for 1896.*

Station.	Elevation.	Latitude.	Mean observed pressure.	Mean observed temperature.	Mean dew-point.	Mean reduction temperature.	Mean pressure reduced to sea level.	Mean temperature reduced to sea level.	Mean pressure at 10,000 feet altitude.	
New England.	2 Feet	° 3 Lat.	Inch. F.	° F.	° F.	° F.	8 Inch.	° F.	10 Inch.	
Eastport	76	44 54	29.91	41.3	33	41.4	30.00	41.5	20.52	
Portland, Me.	103	39 39	29.89	44.6	38	44.7	30.00	44.8	20.56	
Northfield, Vt.	872	44 10	29.00	40.8	34	41.7	30.05	42.6	20.55	
Boston, Mass.	125	42 21	29.89	49.2	39	49.3	30.03	49.4	20.67	
Nantucket, Mass.	14	41 17	30.02	48.7	43	48.7	30.04	48.7	20.66	
Block Island, R. I.	27	41 10	30.01	49.0	43	49.0	30.04	49.0	20.67	
New Haven, Conn.	107	41 18	29.92	49.3	40	49.4	30.04	49.5	20.67	
Middle Atlantic States.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Albany, N. Y.	97	42 39	29.95	45.4	40	45.5	30.06	48.6	20.67	
New York, N. Y.	314	40 43	29.71	51.9	51.5	51.8	30.05	51.8	20.71	
Harrisburg, Pa.	377	40 16	29.67	52.3	44	52.7	30.07	53.1	20.75	
Philadelphia, Pa.	117	39 57	29.95	54.5	43	54.6	30.07	54.7	20.77	
Baltimore, Md.	123	39 18	29.94	55.8	43	55.9	30.06	56.0	20.79	
Washington, D. C.	112	38 54	29.96	55.5	44	55.6	30.09	55.7	20.81	
Lynchburg, Va.	685	37 25	29.35	57.6	47	58.3	30.08	59.0	20.85	
Norfolk, Va.	57	36 51	30.02	60.0	51	60.1	30.08	60.2	20.87	
South Atlantic States.	773	35 13	29.25	61.1	48	61.9	30.07	62.7	20.90	
Charlotte, N. C.	11	35 15	30.07	62.0	56	62.0	30.09	62.0	20.91	
Hatteras, N. C.	9	36 00	30.07	60.4	53	60.4	30.08	60.4	20.88	
Kittyhawk, N. C.	375	35 45	29.68	60.7	48	61.1	30.09	61.5	20.90	
Raleigh, N. C.	78	34 14	30.01	63.8	54	63.4	30.09	63.5	20.93	
Wilmingtn, N. C.	52	32 47	30.06	66.5	58	66.6	30.11	66.7	21.00	
Charleston, S. C.	180	33 28	29.89	65.3	53	65.5	30.08	65.7	20.96	
Augusta, Ga.	98	32 05	29.99	67.4	57	67.5	30.09	67.6	21.00	
Savannah, Ga.	43	30 20	30.03	69.6	59	69.6	30.08	69.6	21.02	
Jacksonville, Fla.	28	26 57	30.02	73.4	65	73.4	30.05	73.4	21.06	
Jupiter, Fla.	22	24 34	30.02	76.4	68	76.4	30.06	76.4	21.10	
Key West, Fla.	36	27 57	30.03	71.4	63	71.4	30.06	71.4	21.04	
Tampa, Fla.	.....	.....	.....	.....	.....	.....	.....	.....	.....
East Gulf States.	Atlanta, Ga.	1,131	33 45	28.90	62.2	50	63.3	30.09	64.4	20.95
Pensacola, Fla.	56	30 30	30.00	67.9	59	68.0	30.06	68.1	20.98	
Mobile, Ala.	57	30 41	30.00	67.2	58	67.3	30.06	67.4	20.97	
Montgomery, Ala.	221	32 33	29.84	66.2	55	66.4	30.07	66.6	20.97	

TABLE E.—Reduction data for 1896—Continued.

Station.	Elevation.	Latitude.	Mean observed pressure.*	Mean observed temperature.	Mean dew-point.	Mean reduction temperature.	Mean pressure reduced to sea level.	Mean temperature reduced to sea level.	Mean pressure at 10,000 feet altitude.
	Feet.	° 3'	Inch.	° F.	° F.	° F.	Inch.	° F.	Inch.
<i>East Gulf States—Con.</i>									
Vicksburg, Miss.	254	32 23	29.77	66.8	54	67.1	30.04	67.4	20.96
New Orleans, La.	54	29 53	30.00	69.4	60	69.5	30.06	69.6	21.01
<i>West Gulf States.</i>									
Shreveport, La.	249	32 30	29.77	67.0	54	67.2	30.03	67.4	20.95
Fort Smith, Ark.	451	35 22	29.50	63.2	50	63.7	30.01	64.2	20.89
Little Rock, Ark.	302	34 45	29.73	63.4	51	63.7	30.05	64.0	20.91
Corpus Christi, Tex.	20	27 49	29.99	70.0	50	70.0	30.01	70.0	20.98
Galveston, Tex.	42	29 18	30.00	70.2	52	70.2	30.04	70.2	21.00
Palestine, Tex.	510	31 45	29.50	67.5	54	68.0	30.03	68.5	20.97
San Antonio, Tex.	704	29 27	29.28	69.9	55	70.6	30.01	71.3	21.00
<i>Ohio Val. & Tennessee.</i>									
Chattanooga, Tenn.	762	35 04	29.29	61.5	49	62.3	30.10	63.1	20.94
Knoxville, Tenn.	960	35 56	29.06	59.6	48	60.6	30.09	61.6	20.90
Memphis, Tenn.	999	35 09	29.63	63.1	52	63.5	30.06	63.9	20.92
Nashville, Tenn.	545	36 10	29.50	60.3	48	60.8	30.08	61.3	20.89
Lexington, Ky.	989	38 02	29.01	55.9	44	56.9	30.06	57.9	20.82
Louisville, Ky.	525	38 15	29.50	58.1	45	58.6	30.06	59.1	20.84
Indianapolis, Ind.	823	39 46	29.18	54.1	43	54.9	30.07	55.7	20.73
Cincinnati, Ohio.	628	39 06	29.40	55.6	43	56.2	30.08	56.8	20.81
Columbus, Ohio.	824	39 58	29.18	53.0	44	53.8	30.07	54.6	20.75
Pittsburg, Pa.	843	40 32	29.17	53.3	44	54.1	30.07	54.9	20.78
Parkersburg, W. Va.	638	39 18	29.40	54.6	45	55.2	30.09	55.8	20.81
<i>Lower Lake Region.</i>									
Buffalo, N. Y.	768	42 53	29.21	47.1	38	47.8	30.05	48.5	20.66
Oswego, N. Y.	335	43 23	29.66	45.9	38	46.2	30.02	46.5	20.61
Rochester, N. Y.	523	43 08	29.47	47.7	38	48.2	30.04	48.7	20.66
Erie, N. Y.	714	42 07	29.28	49.1	41	49.8	30.06	50.5	20.70
Cleveland, Ohio.	762	41 30	29.36	50.8	42	51.4	30.04	52.0	20.71
Sandusky, Ohio.	629	41 25	29.36	50.8	42	51.4	30.04	52.0	20.71
Toledo, Ohio.	674	41 40	29.32	50.0	42	50.7	30.05	51.4	20.71
Detroit, Mich.	730	42 20	29.25	48.6	40	49.3	30.05	50.0	20.68
<i>Upper Lake Region.</i>									
Alpena, Mich.	609	45 05	29.35	43.0	36	43.6	30.02	44.2	20.57
Grand Haven, Mich.	628	45 05	29.33	47.3	40	47.9	30.02	48.5	20.64
Marquette, Mich.	734	46 34	29.18	42.0	34	42.7	29.99	43.4	20.54
Port Huron, Mich.	639	43 00	29.35	46.8	39	47.4	30.05	48.0	20.66
Sault Ste. Marie, Mich.	624	46 28	29.32	39.5	32	40.1	30.02	40.7	20.76
Chicago, Ill.	824	41 52	29.15	49.8	40	50.6	30.04	51.4	20.70
Milwaukee, Wis.	670	43 02	29.30	47.2	40	47.9	30.04	48.6	20.66
Green Bay, Wis.	617	41 31	29.36	45.0	36	45.6	30.04	46.2	20.62
Duluth, Minn.	702	46 48	29.23	39.6	32	40.3	30.01	41.0	20.51
<i>North Dakota.</i>									
Moorehead, Minn.	935	46 52	28.97	37.7	30	38.6	30.01	39.5	20.49
Bismarck, N. Dak.	1,674	46 47	28.22	28.9	26	40.3	30.05	42.0	20.55
Williston, N. Dak.	1,875	48 09	27.98	37.6	28	38.6	30.02	40.5	20.51
<i>Upper Mississippi Valley.</i>									
St. Paul, Minn.	837	44 58	29.10	44.0	34	44.8	30.01	45.7	20.59
Davenport, Iowa.	599	41 30	29.37	50.8	40	51.4	30.02	52.0	20.70
Des Moines, Iowa.	867	41 35	29.11	50.1	39	51.0	30.05	51.9	20.71
Keokuk, Iowa.	614	40 22	29.37	53.0	42	53.6	30.03	54.2	20.74
Cairo, Ill.	359	37 00	29.66	59.4	49	59.8	30.04	60.2	20.84
Springfield, Ill.	644	39 48	29.36	53.7	43	54.3	30.05	54.9	20.75
Hannibal, Mo.	534	39 41	29.46	54.2	44	54.7	30.03	55.2	20.76
St. Louis, Mo.	567	38 38	29.45	57.9	47	58.5	30.06	59.1	20.84
<i>Missouri Valley.</i>									
Kansas City, Mo.	963	39 05	29.01	55.4	45	56.4	30.04	57.4	20.80
Springfield, Mo.	1,324	37 12	28.63	56.8	46	58.1	30.02	59.4	20.82
Omaha, Nebr.	1,103	41 16	28.84	51.2	40	52.3	30.02	53.4	20.72
Pierre, S. Dak.	1,460	44 24	28.42	45.9	33	46.0	29.99	47.5	20.60
Huron, S. Dak.	1,310	44 21	28.60	42.8	32	45.4	30.01	46.7	20.60
<i>Northern Slope.</i>									
Havre, Mont.	2,477	48 34	27.84	39.7	28	41.6	29.98	44.1	20.54
Miles City, Mont.	2,372	46 25	27.45	43.4	30	45.3	29.96	47.7	20.59
Helena, Mont.	4,108	46 34	25.83	43.6	27	47.6	30.05	51.7	20.71
Rapid City, S. Dak.	3,260	44 04	26.58	46.7	30	47.7	30.07	51.0	20.65
Cheyenne, Wyo.	6,105	41 08	22.98	45.7	26	51.0	29.98	57.1	20.75
Lander, Wyo.	5,372	42 50	24.63	43.0	25	48.0	30.01	53.4	20.71
North Platte, Nebr.	2,826	41 08	27.06	49.8	37	52.5	30.00	55.3	20.74
<i>Middle Slope.</i>									
Denver, Colo.	5,290	39 45	24.71	51.6	27	54.8	29.94	60.1	20.77
Pueblo, Colo.	4,713	38 18	25.24	53.1	24	56.4	29.93	61.1	20.78
Concordia, Kans.	1,308	39 35	28.51	54.4	42	56.3	29.99	57.7	20.77
Dodge City, Kans.	2,504	37 45	27.37	56.4	39	59.3	29.93	61.7	20.79
Wichita, Kans.	1,351	37 41	28.57	58.0	44	59.7	29.99	61.1	20.82
Oklahoma, Okla.	1,218	35 26	28.71	61.0	41	61.9	29.99	63.1	20.86
<i>Southern Slope.</i>									
Abilene, Tex.	1,749	32 23	28.19	65.6	47	66.4	29.98	68.1	20.92
Amarillo, Tex.	3,691	35 13	26.94	57.2	36	60.6	29.95	64.3	20.84
<i>Southern Plateau.</i>									
El Paso, Tex.	3,767	31 47	26.16	64.3	31	66.5	29.90	70.3	20.91
Santa Fe, N. Mex.	6,998	35 41	23.27	50.1	21	57.4	29.96	64.4	20.86
Phoenix, Ariz.	1,076	33 24	28.74	70.2	42	71.3	29.84	72.4	20.90
Yuma, Ariz.	139	32 45	29.72	73.1	42	73.2	29.88	73.3	20.93
<i>Middle Plateau.</i>									
Carson City, Nev.	4,720†	39 08	25.28	50.3	29	55.0	30.00	59.7	20.81
Winnemucca, Nev.	4,340	40 58	25.65	49.5	29	56.4	30.02	60.7	20.84
Salt Lake City, Utah.	4,344	40 46	25.64	51.5	34	55.5	30.01	59.8	20.82
<i>Northern Plateau.</i>									
Baker City, Oreg.	3,470	44 50	26.43	46.4	32	53.0	30.00	56.5	20.76
Idaho Falls, Idaho.	4,742	43 29	25.34	44.4	30	48.9	30.04	53.6	20.74
Spokane, Wash.	1,943	47 40	28.00	53.0	41	54.0	30.01	54.2	20.72
Walla Walla, Wash.	1,018	46 02	28.93	53.5	41	51.9	30.02	52.9	20.71
<i>North Pacific Coast.</i>									
Fort Canby, Wash.	179	46 16	29.82	50.2	46	50.4	30.02	50.6	20.67
Seattle, Wash.	119	47 38	29.89	51.1	45	52.0	30.02	51.3	20.77
Tatoosh Island, Wash.	86	48 23	29.91	48.0	43	48.1	30.00	48.2	20.62
Portland, Oreg.	153	45 32	29.86	52.6	42	52.8	30.03	53.0	20.72
Roseburg, Oreg.	521	43 13	29.44	53.2	42	53.7	30.01	54.2	20.72
<i>Middle Pacific Coast.</i>									
Eureka, Cal.	64	40 48	30.00	52.3	47	54.5	30.07	54.6	20.77

TABLE E.—Reduction data for 1896—Continued.

Station.	Elevation.	Latitude.	Mean observed pressure.*	Mean observed temperature.	Mean dew-point.	Mean reduction temperature.	Mean pressure reduced to sea level.	Mean temperature reduced to sea level.	Mean pressure at 10,000 feet altitude.
	Feet.	° 3'	Inch.	° F.	° F.	° F.	Inch.	° F.	Inch.
<i>Mid. Pacific Coast—Con.</i>									
Red Bluff, Cal.	334	40 10	29.63	62.5	42	56.3	29.99	56.6	20.75
Sacramento, Cal.	71	39 35	29.86	55.9	48	56.1	30.03	56.3	20.77
San Francisco, Cal.	153	37 48	29.86	55.9	48	56.1	30.03	56.3	20.77
<i>South Pacific Coast.</i>									
Fresno, Cal.	392	36 43	29.61	63.7	44	61.5	29.96	61.8	20.81
Los Angeles, Cal.	330	34 03	29.61	63.1	43	61.3	29.96	63.4	20.84
San Diego, Cal.	69	32 43	29.60	61.9	52	64.4	29.97	64.5	20.86
San Luis Obispo, Cal.	201	35 18	29.79	59.3	46	59.5	30.01	59.7	20.82
<i>Canadian Stations.</i>									
St. Johns, N. F.	125	47 34	29.79	40.5	40	40.6	29.95	40.7	20.45
Sydney, C. B. I.	55	46 10	29.90	41.9	42	42.0	30.04	42.1	20.50
Halifax, N. S.	118	44 39	29.89</						

TABLE I.—Annual meteorological summary, Weather Bureau stations, 1896.

Districts and stations.	Elevation of barometer above sea level.	Pressure in inches. ^t		Temperature of the air in degrees Fahrenheit.										Mean relative humidity, per cent.	Precipitation.	Wind.			Cloudy days.	Average cloudiness, tenths.	Total snowfall, in inches. ^t				
		Mean actual 8 a.m. + 8 p.m. + 2.		Departure from normal.												Total, in inches.	Departure from normal.	Days with .01 or more.	Total movement, miles.	Prevailing direction.	Max. velocity.				
		Mean reduced.	Mean max. + min. + 2.	Mean maximum.	Mean minimum.	Greatest monthly range.	Mean temperature of the dew point.	Total, in inches.	Departure from normal.	Days with .01 or more.	Total movement, miles.	Prevailing direction.	Miles per hour.												
<i>New England.</i>																									
Eastport, Me.	76	29.89	30.00	+ .02	44.6	-1.7	92	52	-13	37	58	38	79	45.44	+ 3.06	146	67,152	n.	42	n.	102	109	155	6.1	77.1
Portland, Me.	103	29.89	30.05	+ .04	40.8	-0.2	91	51	-30	30	72	34	78	33.82	- 1.99	147	77,397	s.	46	n.	69	141	156	6.5	89.8
Northfield, Vt.	872	29.09	30.04	+ .04	49.2	+0.3	95	57	-11	42	67	39	73	37.55	- 7.54	136	108,375	w.	58	se.	133	98	135	5.4	38.9
Boston, Mass.	125	29.90	30.04	+ .04	49.2	+0.3	86	54	-1	43	53	43	82	33.17	- 7.67	150	110,537	sw.	62	ne.	128	103	135	5.5	32.1
Nantucket, Mass.	14	30.03	30.04	+ .01	48.7	+0.1	87	53	-6	43	56	43	81	41.03	- 3.72	119	138,168	sw.	58	nw.	177	82	107	4.4	33.9
Woods Hole, Mass.																									
Vineyard Haven, Mass.																									
Block Island, R. I.	27	30.03	30.05	+ .02	49.0	-0.3	86	52	-4	44	53	43	81	44.59	+ 0.25	128	86,383	sw.	80	ne.	109	99	158	5.1	27.8
Narragansett Pier, R. I.																									
New Haven, Conn.	107	29.93	30.05	+ .01	49.3	-0.1	94	53	-11	41	64	40	74	38.35	- 9.66	130	85,818	n.	54	e.	206	35	125	29.5	
<i>Middle Atlantic States.</i>																									
Albany, N. Y.	97	29.96	30.07	+ .05	48.4	+0.2	95	57	-16	40	67	40	77	27.88	- 10.07	130	72,445	s.	48	e.	118	128	120	5.7	51.6
New York, N. Y.	314	29.72	30.06	+ .01	51.2	-0.8	94	56	-6	44	67	43	77	36.99	- 6.94	124	125,288	nw.	134	72	n.	134	91	5.3	42.0
Harrisburg, Pa.	877	29.67	30.09	+ .03	52.3	-0.8	95	60	-1	45	68	44	76	35.06	- 9.10	121	65,491	w.	52	s.	110	107	149	5.7	56.7
Philadelphia, Pa.	117	29.96	30.08	+ .02	54.5	+0.6	97	62	2	47	65	43	69	32.15	- 7.80	112	91,897	n.	53	n.	130	110	136	5.6	14.8
Baltimore, Md.	123	29.95	30.08	+ .01	55.8	+0.5	98	64	5	48	63	43	67	38.59	- 5.49	120	60,240	sw.	50	s.	97	136	133	5.7	17.0
Washington, D. C.	112	29.98	30.10	+ .02	55.5	+0.5	98	65	8	46	65	44	72	31.16	- 12.43	124	61,342	s.	66	se.	148	100	118	4.8	9.3
Cape Henry, Va.																									
Lynchburg, Va.	685	29.37	30.11	+ .03	57.6	+0.3	98	67	6	48	65	47	74	46.64	+ 3.67	125	37,113	sw.	34	nw.	119	117	130	3.2	
Norfolk, Va.	57	30.04	30.10	+ .03	60.0	+0.6	98	68	11	52	62	51	79	44.23	- 8.00	118	77,558	sw.	56	sw.	149	95	122	5.1	5.7
<i>South Atlantic States.</i>																									
Charlotte, N. C.	773	29.28	30.10	+ .02	61.1	+0.8	99	71	6	51	64	48	69	34.78	- 17.30	97	59,393	s.	42	sw.	166	124	76	4.4	2.0
Hatteras, N. C.	11	30.10	30.11	+ .04	62.0	+0.4	91	67	15	57	51	56	83	45.25	- 21.38	114	121,753	sw.	67	n.	136	139	91	4.8	T.
Kitty Hawk, N. C.	9	30.09	30.10	+ .04	60.4	+0.3	98	67	11	54	57	53	82	51.43	- 4.94	104	130,589	sw.	72	ne.	185 ^a	98 ^a	79 ^a	4.1	5.0
Raleigh, N. C.	375	29.71	30.11	+ .01	60.7	+1.4	99	70	8	51	64	48	70	43.91	- 11.76	111	59,707	sw.	34	sw.	128	103	107	5.1	7.5
Wilmington, N. C.	78	30.04	30.13	+ .05	63.3	-0.1	98	72	12	55	60	54	79	40.42	- 14.04	113	74,850	sw.	48	sw.	150	153	63	4.4	12.1
Charleston, S. C.	52	30.09	30.14	+ .05	66.5	+0.2	98	73	18	60	54	58	80	47.78	- 9.08	102	72,327	sw.	62	s.	130	179	57	4.5	T.
Columbia, S. C.																					143	139	84	0.6	
Augusta, Ga.	180	29.92	30.11	+ .04	65.3	+0.5	101	78	15	55	60	58	72	43.45	- 5.02	102	48,412	sw.	48	sw.	159	117	96	4.6	T.
Savannah, Ga.	98	30.03	30.13	+ .03	67.4	+0.5	101	77	21	54	57	58	78	44.24	- 7.78	102	68,637	s.	75	se.	173	108	85	4.6	T.
Jacksonville, Fla.	43	30.07	30.12	+ .04	69.6	-0.1	100	79	24	60	53	59	78	40.19	- 14.05	111	68,198	ne.	70	se.	161	139	66	4.4	0.0
<i>Florida Peninsula.</i>																									
Jupiter, Fla.	28	30.07	30.10	+ .02	73.4	-1.2	98	79	37	68	46	65	79	53.26	- 4.81	151	87,778	e.	39	sw.	94	165	107	5.5	0.0
Key West, Fla.	22	30.07	30.09	+ .04	73.4	-1.1	90	81	52	73	58	68	76	25.72	- 12.79	117	92,372	n.	46	n.	121	174	71	5.0	0.0
Tampa, Fla.	36	30.07	30.11	+ .03	71.4	-0.3	98	80	32	63	47	63	81	59.63	+ 7.30	123	54,589	ne.	48	se.	151	163	52	4.4	0.0
<i>East Gulf States.</i>																									
Atlanta, Ga.	1,131	28.98	30.12	+ .01	62.2	+0.9	97	71	10	53	59	50	71	34.12	- 18.08	108	82,214	nw.	46	sw.	170	106	90	4.5	0.2
Pensacola, Fla.	66	30.04	30.10	+ .02	67.9	-0.1	99	75	22	61	49	59	77	62.14	+ 0.21	106	82,966	sw.	72	n.	148	120	112	4.9	0.0
Mobile, Ala.	57	30.04	30.10	+ .02	67.2	-0.1	99	75	22	59	49	58	79	60.39	- 2.41	117	64,840	n.	27	se.	118	114	126	4.6	T.
Montgomery, Ala.	221	29.87	30.10	+ .00	66.3	+0.5	101	76	19	56	55	54	74	45.82	- 7.10	96	54,068	sw.	41	nw.	140	119	107	4.9	T.
Vicksburg, Miss.	254	29.80	30.06	-0.03	66.8	+0.9	100	76	22	57	59	54	70	37.98	- 17.87	95	60,887	se.	38	w.	218	81	87	3.6	0.0
New Orleans, La.	54	30.04	30.10	+ .04	69.4	+0.2	98	77	28	62	55	55	78	49.68	- 11.01	119	73,551	se.	54	n.	152	116	98	4.8	0.0
<i>West Gulf States.</i>																									
Shreveport, La.	249	29.80	30.06	-0.01	67.0	+0.8	106	77	19	57	57	54	71	39.48	- 9.37	84	60,535	se.	45	w.	154	106	106	4.7	T.
Fort Smith, Ark.	481	29.53	30.04	+ .00	63.2	-2.4	107	74	14	52	61	50	68	25.70	- 19.16	90	60,023	e.	42	n.	168	86	112	4.7	5.0
Little Rock, Ark.	302	29.76	30.08	+ .01	63.4	-1.2	105	73	15	50	66	48	72	44.95	- 6.23	114	44,083	w.	38	n.	126	126	114	4.6	3.1
Corpus Christi, Tex.	20	30.03	30.05	+ .00	70.0	0.0	94	76	30	65	50	65	84	23.41	- 10.08	111	59,532	se.	43	sw.	160	105	101	4.7	4.8
Galveston, Tex.	42	30.04	30.08	+ .03	70.2	+0.2	94	75	32	66	44	62	79	23.71	- 25.07	104	96,265	se.	44	*	176	106	86	4.2	T.
Palestine, Tex.	510	29.53	30.07	-0.01	67.5	+1.9	104	78	20	57	54	71	78	38.40	- 8.23	83	60,607	s.	39	sw.	105	160	101	5.5	T.
San Antonio, Tex.	704	29.32	30.05	+ .01	69.9	+1.3	100	80	27	60	55	55	68	34.09	+ 4.32	90	75,145	se.	60	nw.	114	134	118	5.3	0.0
<i>Ohio Valley & Tenn.</i>																									
Chattanooga, Tenn.	762	29.32	30.13	+ .03	61.5	+0.9	98	71	8	52	62	49	70	37.77</											

TABLE I.—Annual meteorological summary, Weather Bureau stations, 1896.—Continued.

Districts and stations.	Elevation of barometer above sea level.	Pressure in inches.†				Temperature of the air, in degrees Fahrenheit.						Precipitation.			Wind.			Clear days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall, in inches.‡				
		Mean actual, 8 a.m. + 8 p.m. ÷ 2.		Mean reduced.		Departure from normal.	Mean max. + 2.	Departure from normal.	Maximum.	Mean maximum.	Minimum.	Greatest monthly range.	Mean temperature of the dew-point.	Total, in inches.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Prevailing direction.	Max. velocity.						
		Mean	min.	Mean	max.		Mean	max.	Mean	min.	Mean	max.	Temp.	inches.	inches.	hours.	Direction.								
<i>U. Mis. Valley—Cont'd.</i>																									
Hannibal, Mo.	534	29.47	30.05	.....	54.2	.....	100	63	1	45	70	44	72	35.23	+ 2.45	113	81,130	sw.	49	sw.	146	114	4.8	21.4	
St. Louis, Mo.	567	29.47	30.08	+ .02	57.9	+ 1.8	100	66	5	50	70	47	72	37.55	- 3.64	130	94,751	s.	80	nw.	150	113	5.0	17.2	
<i>Missouri Valley.</i>																									
Columbia, Mo.	963	29.03	30.06	+ .02	55.4	+ 1.5	103	66	0	46	71	45	73	33.64	- 2.77	100	76,584	se.	42	nw.	107	99	160	6.0	27.7
Kansas City, Mo.	963	29.03	30.05	- .00	56.3	+ 0.8	100	66	4	48	65	46	72	40.89	- 4.96	105	75,661	sw.	40	sw.	128	129	109	5.0	29.3
Springfield, Mo.	1,324	28.65	30.05	- .00	56.3	+ 2.7	105	67	1	45	72	40	72	36.56	+ 1.81	101	82,957	se.	60	nw.	105	175	86	4.9	25.7
Topeka, Kans.	1,023	28.85	30.03	- .03	51.2	+ 1.4	98	60	- 8	42	76	40	69	35.90	+ 4.18	109	68,924	se.	54	ne.	117	115	211	5.5	20.2
Omaha, Nebr.	1,103	28.85	30.03	- .03	47.2	+ 0.1	103	57	- 16	35	96	33	67	17.85	- 30.77	107	94,651	nw.	56	sw.	125	111	130	5.5	15.1
Sioux City, Iowa.	1,165	28.42	29.99	- .04	45.9	+ 1.0	103	57	- 16	35	96	33	67	17.85	- 1.56	77	82,957	se.	52	sw.	111	138	117	5.4	27.3
Pierre, S. Dak.	1,460	28.42	29.99	- .04	42.8	+ 0.2	101	55	- 17	31	90	33	70	26.10	+ 5.04	106	113,724	se.	56	*	96	162	108	5.5	20.1
Huron, S. Dak.	1,810	28.60	30.03	- .01	49.8	+ 1.3	100	63	- 14	37	91	37	68	16.52	- 1.77	70	85,003	se.	55	se.	126	201	39	4.5	20.8
<i>Northern Slope.</i>																									
Havre, Mont.	2,477	27.33	29.98	- .03	39.7	- 1.4	98	51	- 33	28	96	28	71	16.48	+ 2.38	98	75,251	sw.	49	sw.	150	132	84	4.8	38.5
Miles City, Mont.	2,372	27.45	29.97	- .03	43.4	- 0.8	98	55	- 25	32	96	30	65	11.72	- 1.00	91	61,747	nw.	46	w.	144	110	112	5.0	28.3
Helena, Mont.	4,108	25.83	30.06	+ .03	43.6	- 0.3	95	53	- 23	34	65	27	57	15.38	+ 2.18	95	64,857	sw.	50	sw.	152	100	114	4.8	58.2
Rapid City, S. Dak.	3,260	26.59	29.99	- .03	46.7	+ 0.6	100	58	- 14	35	85	20	59	13.63	- 3.06	107	84,386	sw.	58	n.	90	160	116	5.8	40.3
Cheyenne, Wyo.	6,105	24.00	30.06	- .03	48.7	+ 0.8	90	56	- 12	34	80	26	53	20.79	+ 8.57	83	100,323	nw.	58	sw.	106	187	73	5.3	50.8
Lander, Wyo.	5,372	24.64	30.05	+ .01	48.0	+ 0.4	95	57	- 31	29	98	35	58	12.92	- 1.16	74	37,648	sw.	50	w.	123	174	69	4.9	81.3
North Platte, Nebr.	2,936	27.08	30.03	- .01	49.8	+ 1.3	100	63	- 14	37	91	37	68	16.52	- 1.77	70	85,003	se.	55	se.	126	201	39	4.5	20.8
<i>Middle Slope.</i>																									
Denver, Colo.	5,290	24.73	30.01	- .00	51.6	+ 1.9	96	65	- 9	36	84	27	48	11.84	- 2.67	75	71,468	s.	66	sw.	111	197	58	4.7	48.3
Pueblo, Colo.	4,713	25.26	29.97	- .03	53.1	+ 1.1	102	68	- 17	38	98	24	49	10.81	- 1.32	66	67,082	nw.	54	n.	149	150	67	4.6	18.8
Concordia, Kans.	1,398	28.53	30.02	- .04	54.4	+ 2.4	103	65	- 3	44	77	42	70	33.24	+ 7.81	102	65,453	s.	44	s.	158	122	86	4.5	15.7
Dodge City, Kans.	2,504	27.39	29.99	- .01	56.4	+ 2.8	104	70	2	43	76	39	64	19.87	0.00	69	102,323	s.	59	s.	196	115	55	4.0	5.3
Wichita, Kans.	1,351	28.59	30.02	- .00	58.0	+ 2.4	106	69	4	47	68	44	68	27.06	- 1.76	87	80,446	s.	44	s.	163	106	95	4.5	10.7
Oklahoma, Okla.	1,218	28.74	30.03	- .00	61.0	+ 1.6	104	72	11	50	66	48	70	21.90	- 11.46	78	85,023	s.	48	*	232	79	55	3.6	5.7
<i>Southern Slope.</i>																									
Abilene, Tex.	1,749	28.22	30.03	- .01	65.6	+ 1.9	105	76	16	55	68	47	61	20.74	- 4.33	68	90,742	s.	60	sw.	149	133	84	4.6	4.0
Amarillo, Tex.	3,691	26.27	30.01	- .02	57.2	+ 1.7	99	70	8	45	74	36	57	24.28	+ 6.08	79	144,633	s.	66	*	143	119	104	4.9	12.8
<i>Southern Plateau.</i>																									
El Paso, Tex.	3,767	26.20	29.98	- .01	64.3	+ 0.3	103	78	14	51	63	31	40	9.79	+ 0.45	48	97,880	nw.	64	sw.	174	147	45	3.6	0.4
Santa Fe, N. Mex.	6,998	23.30	30.01	- .01	50.1	+ 0.8	89	61	7	40	57	21	43	14.28	0.00	85	61,376	sw.	50	sw.	180	128	58	4.1	45.4
Phoenix, Ariz.	1,076	28.77	29.89	.....	70.2	+ 1.3	115	84	28	56	65	42	44	10.48	+ 3.25	40	40,542	w.	48	se.	229	85	52	3.0	0.0
Yuma, Ariz.	130	29.75	29.89	- .03	73.1	+ 0.7	117	87	31	59	63	43	42	2.55	- 0.43	20	59,537	n.	40	sw.	274	74	18	2.0	0.0
<i>Middle Plateau.</i>																									
Carson City, Nev.	4,730	25.30	30.05	.....	50.3	+ 0.7	97	64	7	36	64	39	50	14.44	+ 2.42	70	87,531	sw.	58	w.	140	123	103	4.7	41.0
Winnebago, Nev.	4,340	25.67	30.04	+ .02	49.5	+ 0.9	98	62	- 4	37	72	23	43	11.08	+ 2.57	97	87,531	sw.	38	*	124	119	118	5.3	18.0
Salt Lake City, Utah.	4,344	25.65	30.05	- .00	51.5	- 0.1	97	62	- 2	41	67	34	56	18.42	+ 2.18	105	52,324	se.	48	*	97	123	146	6.2	40.1
<i>Northern Plateau.</i>																									
Baker City, Oreg.	3,470	26.44	30.04	- .01	46.4	+ 1.6	96	57	- 8	36	70	32	64	18.37	- 1.85	124	50,798	s.	44	nw.	107	116	133	5.6	33.2
Idaho Falls, Idaho.	4,742	25.25	30.07	+ .02	44.4	+ 2.7	95	57	- 26	32	86	30	67	17.18	+ 2.30	107	70,712	s.	43	s.	137	84	145	5.4	54.7
Spokane, Wash.	1,943	28.93	30.02	- .02	53.5	- 0.3	106	63	- 9	44	80	41	68	10.41	+ 2.50	132	54,409	s.	38	sw.	137	158	71	4.8	19.0
Walla Walla, Wash.	1,018	28.93	30.02	- .02	53.5	- 0.3	106	63	- 9	44	80	41	68	10.41	+ 2.50	132	54,409	s.	38	sw.	137	158	71	4.8	19.0
<i>North Pacific Coast.</i>																									
Fort Canby, Wash.	179	29.82	30.02	.00	50.2	- 0.6	89	55	20	45	43	46	88	78.57	+ 16.08	187	118,706	n.	82	se.	74	79	213	6.8	5.3
Port Angeles, Wash.	29	29.88	30.01	.....	46.1	- 0.4	83	54	12	41	43	46	88	30.40	+ 0.05	144	51,509	sw.	38	*	124	119	118	5.3	18.0
Seattle, Wash.	119	29.88	30.01	.....	51.1	.....	93	58	15	44	48	43	76	42.83	.....	165	48,701	s.	34	sw.	108	168	60	4.0	10.4
Tatoosh Island, Wash.	86	29.90	30.00	- .01	48.0	- 0.9	73	52	24	44	31	43	63	100.85	+ 7.97	204	112,520	e.	68	w.	72	57	237	7.3	7.9
Astoria, Oreg.	153	29.86	30.02	- .04	52.6	- 0.5	93	60	11	45	49	42	74	44.13	- 2.91	164	74,919	nw.	49	se.	108	67	191	.....	6.0
Portland, Oreg.	153	29.86	30.02	- .04	52.6	- 0.5	93	60	11	45	49	42	74	43.69	+ 8.38	148	92,301	nw.							

TABLE II.—*Annual meteorological summary, Canadian stations, 1896.*

Stations.	Pressure.			Tempera-ture.		Precipitation.		Stations.	Pressure.			Tempera-ture.		Precipitation.		
	Mean not re-dduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Total.	Departure from normal.	Prevailing direction of wind.	Total depth of snow-fall.	Mean.	Departure from normal.	Total.	Departure from normal.	Prevailing direction of wind.	Total depth of snow-fall.	
St. Johns, N. F.....	29.78	29.93	+ .01	40.5	- 0.9	62.63	.....	w.	113.4	Port Stanley	29.40	30.04	+ .01	45.0	.....	36.68 + 2.51 w.
Sydney, C. B. I.....	29.90	29.96	+ .03	41.9	+ 1.1	48.15	- 4.19	sw.	81.2	Saugeen, Ont.....	29.30	30.03	+ .03	43.1	+ 1.9	28.88 + 5.50 w.
Halifax, N. S.....	29.89	30.02	+ .06	43.2	+ 1.0	69.81	+ 14.37	w.	60.3	Pearly Sound, Ont.....	29.31	30.02	+ .02	40.4	+ 1.7	33.10 + 4.22 w.
Grand Manan, N. B.....	29.98	30.03	+ .05	42.0	-	42.28	- 2.34	w.	49.5	Port Arthur, Ont.....	29.27	29.99	.00	31.8	+ 1.4	21.48 + 2.56 w.
Yarmouth, N. S.....	29.92	30.00	+ .02	43.0	- 0.1	46.79	+ 0.66	nw.	66.4	Winnipeg, Man.....	29.13	29.99	- .02	32.6	+ 1.6	26.29 + 2.84 n.
St. Andrews, N. B.....	.....	.....	.....	40.9	- 0.4	34.75	- 5.27	nw.	74.7	Minnedosa, Man.....	28.14	29.99	.00	31.6	+ 2.1	23.70 + 5.97 nw.
Charlottetown, P. E. I.....	29.92	29.96	+ .01	43.1	+ 2.4	38.42	- 3.36	w.	56.5	Qu'Appelle, Assin.....	27.68	29.99	.00	31.5	+ 0.4	21.68 + 6.69 nw.
Chatham, N. B.....	29.95	29.97	+ .03	36.6	+ 0.1	37.87	- 6.09	127.4	Medicine Hat, Assin.....	27.63	29.97	.00	38.8	- 0.7	18.18 + 7.41 s.	
Father Point, Que.....	29.94	29.97	+ .03	34.0	- 0.3	36.95	+ 7.15	w.	130.7	Swift Current, Assin.....	27.37	30.00	.00	36.0	+ 0.7	14.11 + 1.74 w.
Quebec, Que.....	29.66	30.00	+ .03	37.0	- 0.5	40.90	- 1.88	ne.	82.7	Calgary, Alberta.....	26.25	29.96	- .02	34.6	- 1.3	16.05 + 2.77 w.
Montreal, Que.....	29.80	30.01	+ .03	40.7	- 0.1	41.23	+ 2.42	sw.	115.2	Prince Albert, Sack.....	28.39	29.95	- .01	30.5	.....	19.64 + 5.77 nw.
Rockliffe, Ont.....	29.49	30.01	- .03	36.5	+ 1.0	32.07	+ 1.02	nw.	101.9	Edmonton, Alberta.....	27.62	30.01	+ .05	33.1	- 2.5	15.24 + 1.43 nw.
Kingston, Ont.....	29.70	30.02	+ .04	42.4	- 0.1	35.78	- 8.16	sw.	.....	Battleford, Sask.....	28.22	30.00	.00	31.1	.....	12.93 + 3.62 se.
Toronto, Ont.....	29.65	30.04	+ .02	44.4	+ 1.0	29.08	- 1.67	nw.	70.9	Hamilton, Bermuda.....	29.97	30.13	+ .04	69.6	.....	15.86 + 0.00 sw.
White River, Ont.....	28.63	30.02	.00	31.2	+ 0.2	26.42	+ 3.09	w.	110.4	Esquimalt, B. C.....	29.96	29.99	.....	32.9	.....	46.47 + 31.77 sw.

* For the snow year, July 1, 1895, to June 30, 1896.

TABLE III.—Accumulated departures of average monthly temperatures during 1896.

Districts.													Annual aver. age.
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
New England	- 2.0	- 2.3	- 4.9	- 3.7	- 1.1	- 1.2	- 0.6	+ 0.5	- 0.1	- 1.7	+ 1.7	- 1.1	+ 0.09
Middle Atlantic States	- 1.6	- 2.8	- 5.8	- 2.0	- 3.1	- 2.6	+ 2.6	+ 4.8	+ 4.7	+ 1.7	+ 5.9	- 3.7	+ 0.31
South Atlantic States	- 2.5	- 4.3	- 5.6	- 2.2	- 2.4	- 2.5	+ 2.5	+ 4.6	+ 5.9	+ 4.2	+ 8.7	- 5.6	+ 0.47
Florida Peninsula	- 3.5	- 7.1	- 8.8	- 9.7	- 9.3	- 9.7	- 11.7	- 11.4	- 11.1	- 11.6	- 7.8	- 9.2	+ 0.77
East Gulf States	- 1.6	- 4.8	- 6.9	- 4.8	- 0.8	- 1.2	- 0.9	+ 1.7	+ 2.9	+ 2.2	+ 5.6	+ 4.3	+ 0.36
West Gulf States	+ 2.5	+ 2.6	+ 0.6	+ 2.8	+ 6.5	+ 7.8	+ 8.6	+ 11.3	+ 13.0	+ 11.6	+ 13.0	+ 14.5	+ 1.21
Ohio Valley and Tennessee	+ 2.3	+ 0.7	- 4.1	+ 2.8	+ 9.6	+ 9.5	+ 9.0	+ 11.2	+ 11.0	+ 8.5	+ 11.2	+ 12.3	+ 1.02
Lower Lake Region	+ 0.5	- 0.3	- 4.7	+ 2.0	+ 9.1	+ 9.9	+ 9.5	+ 11.3	+ 9.5	+ 6.0	+ 8.3	+ 7.5	+ 0.62
Upper Lake Region	+ 4.2	+ 6.6	+ 4.5	+ 9.8	+ 8.0	+ 20.5	+ 20.5	+ 23.1	+ 20.7	+ 18.4	+ 16.5	+ 18.6	+ 1.55
North Dakota	+ 4.7	+ 13.1	+ 6.0	+ 6.0	+ 8.7	+ 9.7	+ 8.1	+ 7.4	+ 5.0	+ 3.1	- 16.5	- 11.5	- 0.98
Upper Mississippi Valley	+ 6.4	+ 9.9	+ 6.9	+ 12.7	+ 20.1	+ 20.9	+ 19.9	+ 21.9	+ 19.0	+ 17.0	+ 12.4	+ 16.9	+ 1.41
Missouri Valley	+ 7.4	+ 14.3	+ 10.0	+ 14.6	+ 20.6	+ 20.3	+ 19.3	+ 21.4	+ 18.9	+ 16.5	+ 8.0	+ 14.1	+ 1.18
Northern Slope	+ 7.0	+ 16.6	+ 11.1	+ 8.9	+ 8.2	+ 10.0	+ 9.8	+ 9.4	+ 6.2	+ 6.4	- 6.8	+ 2.4	+ 0.20
Middle Slope	+ 9.8	+ 14.6	+ 11.3	+ 16.5	+ 20.9	+ 22.2	+ 21.9	+ 25.0	+ 24.2	+ 22.8	+ 18.6	+ 24.8	+ 2.07
Abilene (Southern Slope)	+ 4.9	+ 7.0	+ 5.6	+ 10.0	+ 17.0	+ 22.0	+ 21.4	+ 24.7	+ 25.6	+ 22.6	+ 21.5	+ 26.3	+ 2.19
Southern Plateau	+ 4.6	+ 5.0	+ 6.0	+ 3.8	+ 4.4	+ 7.7	+ 5.6	+ 5.5	+ 6.5	+ 7.1	+ 8.7	+ 10.6	+ 0.88
Middle Plateau	+ 8.1	+ 12.1	+ 10.9	+ 4.9	- 0.9	+ 2.1	+ 3.0	+ 1.8	+ 0.8	+ 3.2	+ 1.6	+ 5.0	+ 0.43
Northern Plateau	+ 9.4	+ 21.0	+ 21.0	+ 17.4	+ 10.8	+ 12.6	+ 15.9	+ 15.9	+ 15.3	+ 16.7	+ 10.8	+ 15.0	+ 1.25
North Pacific	+ 3.1	+ 7.0	+ 4.7	+ 0.9	- 2.9	- 3.7	+ 1.4	+ 2.6	+ 1.9	+ 2.2	- 4.0	- 1.8	+ 0.15
Middle Pacific	+ 3.4	+ 6.7	+ 6.7	+ 2.2	- 0.9	- 0.8	+ 1.4	+ 1.6	+ 0.6	+ 1.2	- 1.0	+ 0.6	+ 0.05
Southern Pacific	+ 4.1	+ 7.8	+ 9.0	+ 4.5	+ 3.1	+ 4.9	+ 6.0	+ 5.0	+ 2.0	+ 3.8	+ 3.2	+ 6.0	+ 0.50

TABLE IV.—Accumulated departures of total monthly precipitation during 1896.

Districts.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual total.
New England	- 2.40	- 2.00	- 0.80	- 2.80	- 3.50	- 3.60	- 3.40	- 5.00	- 2.70	- 2.50	- 3.60	- 5.00	- 5.00
Middle Atlantic States	+ 1.90	+ 0.20	+ 0.40	+ 1.80	+ 1.70	+ 1.00	+ 0.10	+ 2.80	+ 3.10	+ 4.60	+ 5.10	+ 7.20	+ 7.20
South Atlantic States	+ 1.10	+ 0.40	+ 1.70	+ 3.70	+ 4.80	+ 5.20	+ 4.00	+ 7.30	+ 9.80	+ 11.40	+ 11.00	+ 10.70	+ 10.70
Florida Peninsula	+ 0.20	+ 0.40	+ 0.40	+ 0.60	+ 2.70	+ 0.10	+ 1.50	+ 0.20	+ 2.00	+ 4.60	+ 3.90	+ 4.00	+ 4.00
East Gulf States	+ 1.70	+ 1.40	+ 2.30	+ 4.00	+ 6.00	+ 4.50	+ 5.00	+ 7.00	+ 8.20	+ 6.70	+ 7.00	+ 9.00	+ 9.00
West Gulf States	+ 0.50	+ 0.10	- 0.80	- 2.50	- 3.90	- 6.20	- 7.40	- 2.70	- 9.70	- 8.10	- 10.30	- 12.50	- 12.50
Ohio Valley and Tennessee	+ 2.60	- 3.80	- 3.90	+ 5.60	+ 6.00	+ 6.70	+ 2.80	+ 3.50	+ 2.80	+ 3.30	+ 2.50	+ 4.60	+ 4.60
Lower Lake Region	+ 0.80	0.00	+ 0.80	+ 1.00	+ 0.40	+ 0.30	+ 2.10	+ 2.50	+ 3.60	+ 1.90	+ 1.10	+ 2.10	+ 2.10
Upper Lake Region	+ 0.50	+ 1.10	+ 1.80	+ 0.70	+ 0.90	+ 2.40	+ 2.60	+ 2.20	+ 1.30	+ 2.10	+ 1.10	+ 2.40	+ 2.40
North Dakota	+ 0.60	+ 0.50	+ 1.10	+ 2.30	+ 3.90	+ 3.00	+ 1.40	+ 1.10	+ 1.50	+ 1.20	+ 3.30	+ 2.90	+ 2.90
Upper Mississippi Valley	+ 0.80	+ 1.60	- 2.20	+ 1.30	+ 0.40	+ 0.70	+ 1.00	+ 0.80	+ 1.70	+ 1.40	+ 1.70	+ 0.40	+ 0.40
Missouri Valley	+ 0.50	+ 1.20	+ 1.70	+ 0.50	+ 1.50	+ 0.20	+ 0.70	+ 0.20	+ 0.20	+ 0.70	+ 1.00	+ 0.20	+ 0.20
Northern Slope	+ 0.10	+ 0.30	+ 0.40	+ 0.50	+ 0.40	+ 0.40	+ 0.20	+ 0.10	+ 0.70	+ 0.60	+ 1.30	+ 0.90	+ 0.90
Middle Slope	+ 0.50	+ 1.10	+ 1.70	+ 1.50	+ 2.10	+ 2.60	+ 1.30	+ 2.50	+ 2.10	+ 1.60	+ 1.40	+ 1.80	+ 1.80
Abilene (Southern Slope)	+ 0.50	+ 0.10	+ 1.30	+ 2.90	+ 5.80	+ 6.90	+ 4.50	+ 6.20	+ 5.20	+ 3.40	+ 3.90	+ 2.30	+ 2.30
Southern Plateau	+ 0.20	+ 0.20	+ 0.40	+ 0.40	+ 0.80	+ 0.80	+ 0.50	+ 0.30	+ 0.60	+ 1.50	+ 1.30	+ 1.10	+ 1.10
Middle Plateau	+ 1.00	+ 0.10	+ 0.30	+ 0.90	+ 2.30	+ 1.70	+ 2.20	+ 3.10	+ 3.10	+ 2.70	+ 3.50	+ 2.40	+ 2.40
Northern Plateau	+ 0.20	+ 1.40	+ 1.40	+ 1.10	+ 0.30	+ 0.80	+ 0.70	+ 0.10	+ 0.50	+ 1.00	+ 1.10	+ 1.10	+ 1.10
North Pacific	+ 3.50	+ 4.90	+ 3.20	+ 4.40	+ 5.70	+ 5.30	+ 4.20	+ 4.60	+ 2.60	+ 1.70	+ 7.00	+ 10.10	+ 10.10
Middle Pacific	+ 2.50	+ 0.70	+ 1.00	+ 2.40	+ 3.10	+ 2.70	+ 2.60	+ 2.60	+ 2.80	+ 2.40	+ 4.20	+ 3.90	+ 3.90
Southern Pacific	+ 0.40	+ 2.00	+ 1.50	+ 1.60	+ 1.80	+ 1.90	+ 1.90	+ 1.90	+ 2.00	+ 1.30	+ 1.00	+ 1.80	+ 1.80

TABLE V.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the year, 1896.

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
	Hours.	Hours.	Hours.	Hours.	°	Hours.		Hours.	Hours.	Hours.	Hours.	°	Hours.
New England.													
Eastport, Me.	264	211	75	317	n. 78 w.	249	Upper Lake Region—Cont'd.	216	179	269	n. 75 w.	94	
Portland, Me.	286	353	47	118	s. 43 w.	104	Milwaukee, Wis.	240	216	179	s. 40 w.	150	
Northfield, Vt.	286	191	135	341	n. 80 w.	210	Greenbay, Wis.	186	300	140	237	n. 38 w.	223
Boston, Mass.	230	191	135	341	n. 64 w.	113	Duluth, Minn.	324	148	171	308	n. 48 w.	148
Nantucket, Mass.	262	213	163	264	s. 46 w.	56	North Dakota.	337	236	83	193	n. 6 e.	192
Woods Hole, Mass.*	87	147	77	139	n. 68 w.	154	Moorhead, Minn.	334	143	291	199	n. 16 w.	104
Block Island, R. I.	237	181	195	330	n. 59 w.	184	Bismarck, N. Dak.	289	189	188	215	n. 54 w.	109
New Haven, Conn.	301	206	103	261	n. 75 w.	175	Williston, N. Dak.	199	264	202	290	s. 39 w.	100
Middle Atlantic States.													
Albany, N. Y.	238	284	71	230	s. 75 w.	175	La Crosse, Wis.	121	199	50	112	s. 86 w.	59
Binghamton, N. Y.							Davenport, Iowa.	201	205	218	277	n. 49 w.	32
New York, N. Y.	245	204	155	311	n. 76 w.	161	Des Moines, Iowa.	238	237	185	209	s. 63 w.	54
Harrisburg, Pa.	166	142	212	206	n. 74 w.	88	Dubuque, Iowa.	233	257	175	233	s. 14 e.	83
Philadelphia, Pa.	284	193	130	230	n. 60 w.	184	Keokuk, Iowa.	233	213	171	150	s. 40 w.	121
Atlantic City, N. J.							Hannibal, Mo.	204	289	172	243	n. 51 e.	111
Baltimore, Md.	238	219	168	268	n. 80 w.	102	St. Louis, Mo.	212	310	172	197	s. 8 w.	99
Washington, D. C.	279	237	136	219	n. 58 w.	98	Missouri Valley.						
Lynchburg, Va.	218	219	198	267	s. 69 w.	1	Columbia, Mo.*	103	134	111	110	s. 2 e.	31
Norfolk, Va.	250	244	220	300	n. 86 w.	80	Kansas City, Mo.	214	300	231	164	s. 38 e.	109
South Atlantic States.							Springfield, Mo.	194	328	234	140	s. 35 e.	164
Charlotte, N. C.	171	304	284	130	s. 49 e.	204	Omaha, Nebr.	283	223	186	208	n. 20 w.	64
Hatteras, N. C.	288	209	171	249	n. 47 w.	108	Sioux City, Iowa.	145	131	100	74	n. 62 e.	30
Kittyhawk, N. C.	251	223	213	243	n. 46 w.	42	Pierre, S. Dak.	256	173	284	182	s. 51 e.	132
Raleigh, N. C.	258	250	138	236	n. 85 w.	98	Huron, S. Dak.	272	231	232	201	n. 37 e.	51
Wilmington, N. C.	211	245	182	274	s. 70 w.	98	Northern Slope.						
Charleston, S. C.	199	271	216	225	s. 7 w.	72	Havre, Mont.	233	145	158	348	n. 65 w.	209
Augusta, Ga.	224	207	211	241	n. 60 w.	34	Miles City, Mont.	281	175	184	219	n. 18 w.	112
Savannah, Ga.	215	280	175	195	s. 17 w.	68	Helema, Mont.	152	261	45	438	s. 73 w.	411
Jacksonville, Fla.	220	253	263	169	s. 70 e.	100	Rapid City, S. Dak.	220	218	142	307	n. 89 w.	165
Florida Peninsula.							Cheyenne, Wyo.	275	184	65	357	n. 73 w.	306
Jupiter, Fla.	184	223	309	165	s. 75 e.	150	Lander, Wyo.	172	280	132	330	s. 62 w.	225
Key West, Fla.	222	137	468	51	n. 79 e.	426	North Platte, Nebr.	185	247	197	266	s. 48 w.	93
Tampa, Fla.	308	112	286	186	n. 18 e.	313	Middle Slope.						
Eastern Gulf States.							Denver, Colo.	213	316	147	200	s. 27 w.	117
Atlanta, Ga.	215	185	231	288	n. 62 w.	64	Pueblo, Colo.	273	164	204	257	n. 25 w.	126
Pensacola, Fla.	271	232	213	198	n. 21 e.	42	Concordia, Kans.	210	315	178	155	s. 12 e.	107
Mobile, Ala.	290	263	148	165	n. 33 w.	32	Dodge City, Kans.	248	283	271	103	s. 79 e.	172
Montgomery, Ala.	205	214	270	219	s. 80 e.	52	Wichita, Kans.	238	387	198	81	s. 50 e.	163
Vicksburg, Miss.	181	300	283	153	s. 47 e.	176	Oklahoma, Okla.	212	380	184	105	s. 25 e.	186
New Orleans, La.	218	273	290	138	s. 70 e.	162	Southern Slope.						
Western Gulf States.							Abilene, Tex.	175	394	182	150	s. 8 e.	221
Shreveport, La.							Amarillo, Tex.	171	399	90	152	s. 15 w.	236
Fort Smith, Ark.	175	146	375	121	n. 84 e.	256	Southern Plateau.						
Little Rock, Ark.	204	204	190	180	s. 6 e.	90	El Paso, Tex.	232	110	213	338	n. 35 w.	149
Corpus Christi, Tex.	168	323	337	95	s. 57 e.	288	Santa Fe, N. Mex.	205	269	290	174	s. 61 e.	132
Galveston, Tex.	138	351	247	134	s. 25 e.	268	Phoenix, Ariz.	52	329	132	332	s. 36 w.	342
Palestine, Tex.	199	355	214	121	s. 31 e.	182	Yuma, Ariz.	272	167	188	247	n. 29 w.	130
San Antonio, Tex.	222	258	306	67	s. 79 e.	242	Middle Plateau.						
Ohio Valley and Tennessee.							Carson City, Nev.	172	220	116	320	s. 77 w.	219
Chattanooga, Tenn.	221	244	190	245	s. 70 w.	69	Winnemucca, Nev.	177	232	136	269	s. 53 w.	92
Knoxville, Tenn.	274	103	204	293	n. 27 w.	192	Salt Lake City, Utah.	188	245	262	228	s. 30 e.	66
Memphis, Tenn.	229	263	243	143	s. 68 e.	107	Northern Plateau.						
Nashville, Tenn.	228	271	157	228	s. 44 w.	59	Baker City, Oreg.	203	355	128	169	s. 15 w.	158
Lexington, Ky.	158	322	167	252	s. 27 w.	185	Idaho Falls, Idaho.	240	371	64	159	s. 36 w.	162
Louisville, Ky.	211	304	155	198	s. 25 w.	102	Spokane, Wash.						
Indianapolis, Ind.	223	277	177	232	s. 46 w.	77	Walla Walla, Wash.	90	440	113	190	s. 12 w.	357
Cincinnati, Ohio.	209	258	233	207	s. 30 e.	63	North Pacific Coast Region.						
Columbus, Ohio.	191	265	129	235	s. 26 w.	82	Fort Canby, Wash.	228	233	178	213	n. 82 w.	35
Pittsburg, Pa.	188	253	138	316	s. 70 w.	189	Port Angeles, Wash.	50	223	128	245	s. 34 w.	208
Parkersburg, W. Va.	165	275	196	213	s. 9 w.	111	Seattle, Wash.	217	325	183	147	s. 18 e.	114
Lower Lake Region.							Tatoosh Island, Wash.	82	253	273	238	s. 12 e.	174
Buffalo, N. Y.	157	228	165	349	s. 69 w.	197	Portland, Oreg.	261	249	149	269	n. 84 w.	130
Oswego, N. Y.	156	321	171	249	s. 25 w.	183	Roseburg, Oreg.	274	191	177	145	n. 21 e.	89
Rochester, N. Y.	137	264	137	376	s. 61 w.	297	Eureka, Cal.	240	231	170	282	n. 85 w.	112
Erie, Pa.	174	268	141	314	s. 61 w.	197	Redbluff, Cal.	270	252	229	229	n. 49 w.	28
Cleveland, Ohio.							Sacramento, Cal.	174	349	136	225	s. 27 w.	196
Sandusky, Ohio.	186	190	203	304	s. 88 w.	101	San Francisco, Cal.	130	184	53	493	s. 82 w.	445
Toledo, Ohio.	162	203	188	332	s. 74 w.	150	South Pacific Coast Region.						
Detroit, Mich.	198	233	173	309	s. 75 w.	142	Fresno, Cal.	295	71	138	414	n. 51 w.	355
Alpena, Mich.	204	224	174	306	s. 82 w.	196	Los Angeles, Cal.	218	82	197	356	n. 50 w.	209
Grand Haven, Mich.	230	222	212	248	n. 77 w.	37	San Diego, Cal.	299	110	134	367	n. 50 w.	300
Marquette, Mich.	256	216	182	311	n. 77 w.	183	San Luis Obispo, Cal.	319	156	70	282	n. 53 w.	267
Port Huron, Mich.	210	294	139	228	s. 46 w.	122							
Sault Ste. Marie, Mich.	190	230	261	236	s. 32 e.	47							
Chicago, Ill.	209	256	144	252	s. 67 w.	118							

*From observations at 8 p. m. only.

TABLE VI.—Total number of thunderstorms reported during 1896.

State.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
Alabama	19	21	18	27	60	87	44	63	9	10	9	10	376
Arizona	6	2	0	0	5	45	60	55	6	32	0	0	213
Arkansas	7	6	29	53	77	66	83	72	34	19	18	1	465
California	30	4	23	26	53	15	90	94	33	8	1	2	381
Colorado	1	3	3	8	5	171	175	110	72	10	2	2	562
Connecticut	0	2	5	37	50	20	65	50	39	0	1	0	270
Delaware	0	4	2	5	25	19	31	11	12	2	0	0	111
Dist. of Columbia	1	1	0	1	8	6	9	3	4	0	0	0	33
Florida	33	25	35	24	106	160	126	188	114	12	16	1	837
Georgia	16	21	15	27	60	41	64	62	17	0	15	4	343
Idaho	4	4	11	20	23	91	80	42	14	0	0	0	298
Illinois	2	6	85	178	326	210	239	180	157	21	33	4	1,441
Indiana	0	0	38	39	132	94	82	82	55	2	3	1	529
Indian Territory	0	2	4	1	13	4	5	1	0	2	3	1	36
Iowa	0	1	71	218	219	184	201	185	71	43	11	0	1,204
Kansas	1	2	24	123	174	145	124	69	75	42	14	0	792
Kentucky	1	1	39	27	80	59	80	54	21	1	2	10	375
Louisiana	23	1	45	46	92	95	123	78	158	58	46	36	781
Maine	0	0	2	2	29	20	26	23	19	4	0	0	134
Maryland	2	13	17	35	124	94	75	62	66	4	4	0	498
Massachusetts	0	0	3	89	103	32	79	122	102	0	7	0	539
Michigan	0	0	25	129	176	137	97	229	44	31	11	0	879
Minnesota	0	0	38	204	124	150	102	133	59	20	9	0	839
Mississippi	15	30	35	61	73	113	63	110	12	23	24	5	564
Missouri	1	8	62	249	470	293	275	270	238	43	28	0	1,945
Montana	0	1	8	13	14	61	43	31	3	1	0	0	175
Nebraska	0	0	29	169	165	136	120	94	44	19	31	1	808
Nevada	2	0	12	0	28	20	100	68	10	7	2	0	247
New Hampshire	0	0	4	32	28	11	43	46	21	2	0	0	187
New Jersey	0	25	24	43	116	107	199	71	80	1	5	0	701
New Mexico	1	1	1	5	15	57	67	67	26	24	0	13	277
New York	0	3	23	86	96	102	137	124	65	5	9	0	650
North Carolina	8	35	43	38	245	219	241	221	127	13	21	1	1,287
North Dakota	0	0	2	33	67	54	32	39	11	2	0	0	2,010
Ohio	0	2	89	279	345	424	482	284	109	1	1	0	130
Oklahoma	0	1	5	6	41	34	13	4	11	8	7	0	112
Oregon	2	4	1	10	16	24	16	25	10	0	4	7	112
Pennsylvania	0	21	8	76	190	148	202	103	105	3	12	0	868
Rhode Island	0	1	1	9	7	2	9	14	14	0	0	0	1,945
South Carolina	10	20	27	34	103	105	91	110	46	5	5	2	582
South Dakota	0	0	7	44	38	75	45	50	28	1	2	0	280
Tennessee	12	5	69	112	121	100	132	76	33	5	37	14	716
Texas	41	16	46	31	50	72	84	57	65	49	22	23	568
Utah	5	1	4	0	26	37	71	43	28	8	1	2	226
Vermont	0	1	3	14	22	18	31	25	20	2	2	0	183
Virginia	3	9	27	24	24	129	118	98	69	54	0	0	543
Washington	0	1	1	9	25	34	11	13	6	1	0	0	101
West Virginia	0	0	16	29	104	102	76	49	43	2	6	0	421
Wisconsin	0	0	32	180	160	168	107	172	47	21	8	0	805
Wyoming	0	0	0	0	12	6	13	6	8	0	0	0	45

TABLE VIII.—Total number of auroras reported during 1896.

State.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
Alabama	0	0	0	0	0	0	0	0	0	0	0	0	0
Arizona	0	0	0	0	0	0	0	0	0	0	0	0	0
Arkansas	0	0	0	0	0	0	0	0	0	0	0	0	0
California	1	0	1	1	0	0	0	0	0	0	0	0	0
Colorado	11	0	1	1	0	0	0	0	0	0	0	0	0
Connecticut	0	0	0	0	0	0	0	0	0	0	0	0	0
Delaware	0	0	0	0	0	0	0	0	0	0	0	0	0
Dist. of Columbia	0	0	0	0	0	0	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0	0	0	0	0	0	0
Georgia	0	0	0	0	0	0	0	0	0	0	0	0	0
Idaho	0	0	0	0	0	0	0	0	0	0	0	0	0
Illinois	2	3	13	26	25	19	20	12	9	6	1	1	151
Indiana	0	0	6	11	21	21	19	17	13	2	1	0	111
Indian Territory	0	1	4	1	6	3	5	1	0	1	0	0	26
Iowa	0	1	7	23	23	23	23	22	16	7	3	3	150
Kansas	1	1	6	21	21	20	19	16	11	1	2	3	112
Kentucky	1	1	6	9	20	19	24	24	19	11	1	2	123
Louisiana	7	11	13	19	20	24	24	24	19	10	13	1	126
Maine	0	1	2	2	7	7	9	11	7	1	0	0	47
Maryland	1	3	5	9	19	18	20	18	14	1	3	0	111
Massachusetts	0	2	2	7	12	15	16	11	9	0	4	0	68
Michigan	0	0	4	22	22	19	18	24	16	7	3	5	135
Minnesota	0	0	6	20	25	19	19	21	13	5	3	1	131
Mississippi	5	9	13	11	16	24	25	25	5	10	10	2	155
Missouri	1	3	23	26	26	26	25	25	13	8	7	1	100
Montana	0	1	5	9	10	24	24	17	6	2	1	1	85
Nebraska	0	0	2	23	27	21	24	21	15	7	0	1	142
Nevada	2	0	5	0	5	10	23	17	7	0	0	0	76
New Hampshire	0	0	1	6	10	4	13	17	4	1	0	0	56
New Jersey	0	3	6	7	17	17	23	12	10	1	1	0	97
New Mexico	1	1	1	4	2	17	21	29	15	17	1	2	127
New York	0	1	4	9	20	19	33	22	12	3	4	0	116
North Carolina	4	7	10	15	27	25	31	23	21	5	4	1	174
North Dakota	0	0	1	7	20	19	17	14	5	1	0	1	85
Ohio	0	1	8	5	16	25	26	18	13	1	1	0	134
Oklahoma	0	1	3	5	13	12	7	4	9	2	2	0	58
Oregon	2	4	5	13	19	20	23	24	18	4	3	0	64
Pennsylvania	0	2	2	5	13	20	23	24	14	3	3	0	125
Rhode Island	0	1	1	4	5	2	6	6	6	0	0	0	31
South Carolina	3	6	8	8	26	20	28	20	16	6	1	0	144
South Dakota	0	3	8	17	14	26	20	16	9	1	1	0	107
Tennessee	5	2	9	18	23	22	27	22	10	4	7	1	149
Texas	11	8	14	13	19	20	27	19	21	15	10	4	181
Utah	2	1	3	3	12	6	13	9	6	1	1	0	88
Vermont	0	1	1	3	12	6	13	9	6	1	1	0	53
Virginia	1	3	3	8	21	24	26	17	12	1	0	0	116
Washington	0	1	1	5	19	26	25	17	14	1	0	0	45
West Virginia	0	0	4	23	23	21	21	17	12	3	8	0	115
Wisconsin	0	0	4	0	3	6	11	5	6	0	0	0	132
Wyoming	0	0	0	0	0	3	6	6	8	0	0	0	31

TABLE IX.—Total number of days on which auroras occurred.

State.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
Alabama	0	0	0	0									